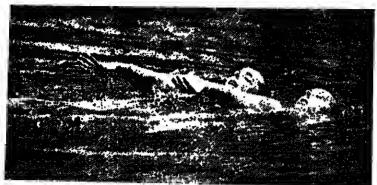


'PATTERNS'

ON WATER

Over 70 entrants from ten clahe attended the recent aixin authoral synchronized swimming cup et the Olimpilsky Sporis Complex in Moscow. Lett to right to "soloist" Muscovite Tatyana Titove and the top pair of Alfrya Zhamaleidlaove and Maria Chernyayevs (also of Moscow). Phofos by Andrei Knynzes





The enaual international "izvestia" prize lournament act out on December 16 in the Luziuiki Aloscow Palaco of Sport with a field of the world's lop five teams from the USSR, Czechos-tovakia, Fialand, Sweden end Canada. The ovent will wind up

on December 21.
The tournament has ettracted apecial attention, for Moscow will host the world and Euro-pean chempionships next April end the present teems will, too, he the main favourites there. The coaches make no bones ebout the fact that they have brought to Moscow practically

SALNIKOV

Triplo Olympic champion Viedimir Sainikov from Moacow scored a double win in the European cup in a 25 m pool la Hertogeaboach, Holland. He won the 400 m fraestyle la 3 min 46.13 sec and weat on to domineto tha 1,500 m in

Specielists and newsmea are referring to Selnikov's "spectacular comeback", notiog hia skill and brevery, as he won atready life first international

Time for ice-hockey battles

all the best players they have, who will enter the compelition in soverel months' time.

The only exception is Canada which has a rather youthful squad of the average age of 20, all future Olympics hopefuls and prepared to go flet out to boost their chances for the 1988 Olympics in Calgary, Caneda.

To sciaia libeir paychological advantago of leaders world

champione Czechoslovakia wili do their best with their previous head coach Jen Sisrši, who has mado a comehack after a long later-val. He replaces Ludék Bukač who led the aqued to the world's gold and, understandshiy, is keen on a successful debut at

tha "izvestle" prize touraament. Sweden end Pinland, who were clearly helow par at the



TOPS AGAIN

meet alter a long interval caused by injury end illaess. Regretiably, he was the only winner in the Soviet men's team at this two-day competitios.

Like e year hefors, the USSR

mea's squed pleced hehind cup winners West Germany and the GDR, while the Soviet women's team was relegated from their last year's second position to the eixth, behiod the GDR, Holland, West Germany, Sweden and

The USSR team are eager to rogein their fans' favour after losing the world title at the previous world champlonship in Preguo end to prepara as best they can for the forthcoming world championship. The team has a fortunate blend of youth and experience, ond that, according to coaches Viktor Ti-khonov and Vladimir Yurziaov, could do the trick.

The opening Czechoslovakia-Sweden bout was a 3-3 draw.

Atexander BUTSENIN

National championship lop silrounder Nelalyo Arlemo-acva of Moscow, picked up the titte in the Moscow Dyaemo sketing-rink. For over oae year she was oul of competition after delivering s haby daughtor, Naisshe. This is ber second auch gold: she won the first four years of Alme-Ata, in an ovent held el Medeo, ontside that

World cup grouped

ball cup in Mexico has roped the USSR, Francs, Canada and Hungary Into the first stage of

Five-year-old Luis Barroso decided the grouping of all the 24 finalists. ftaly end Bulgaria will clash in the cup's opening game on May 31.

Group One comprises Italy,



Moscow Region Dynamo volloyhall tesm heet Balgium's Lenaik 3-0 la a Europesa Cup Winears Cup game al the Moscow Dynamo Pelace of Sport.

BY TOWNSELD AND SERVED BOTTOM TO THE THE

Photo by Serget Prosukov



finalists

Bulgaria, Argentina and Sout Kores. Group Two: Mexico, Ec Commany Humany Group Five: West Officer Commany Humany Group Five: Will Germany Humany Group Five: West Officer Commany Humany Group Five: West Officer Commany Humany Hum Germany, Uruguay, Scolladi sod Denmark, Group Six Re-land, Morocco, Porlugal and

Specialisis agree that the most thrilling competition will be in Group Five. France see 1 favoured to triumph in Group Three hut thair head coach, Three hut thair head coach, Henri Michel, claimed his side in armaments to disarmament from the USSR and Hungary, who, he eiressed, had made and nuclear weepona is orest head way of late. great headway of late.

Championship running for a year

inns just connot learn who is the 1985 national chess diare pton. The championship held to Riga back in January this year "falled" to produce award wirners. Mikhatl Gurevich and Akrander Chernia, both from Klar is the construction of the kov, and Viktor Gavakov has the of durable mutual se-Vilaius shared the lirst three places. and under the regular the United States. But we thought an extre tournament but the same from the US who is who.

For nearly a year now then

The extre tournament has si games pleyed it two rounds in Vilnius. The first three games were drawn. If the opponents have the same number of points at the finish all will be decided by their abowings in the main by their anowings in the main tournament la Riga next Janua-ry. There international blaster Girevich had the top rating, ahead of Grandmasters Gavil-kov and Chernin.

pion Garri Kasparov bas gots to Hilversum (Holland) for a six-geme training match with Dutch Grandmaster Jan Timnas who recently heat Mikhail Id in an extre match at Modius. ln an extre match at Mootpa iter (France) to win a pass to the chellenger semifinals. Kasparov, who played Black, well the first game in the 52nd more

Viktor BABEIN

INFORMATION MOSCOL

EDITORIAL BOARD

Moscow USSR Published Tuesday and Salurds Index 30078.



Mikhail GORBACHOV:

Adde peace through arms hp, on earth or ta space.

a was said by Mikhail

Memlin with US Prolessor and Lown, US Co-Chairman

a International Physicians is Prevenilon of Nuclear

all appearance, the howks

US have set out to pre-

a accords, to disrupt or

ikan aummil took cheap,

Soviel Union is prepared

ser ils part of the roads

and peaceful cooperation

a We are prepared

on from competition in er-

implementation of the

Price 5 kopeks

To pass on from competition

Politbureau regular meeting

The Politbureau of the CPSU Central Committee hee examined ecceleration is the development of the material end technological basis for the purcessing ladueries in the agroindustrist complex hetween 1986 and 1990.

A decision of the CPSU Central Committee and the USSR Council of Ministers on this issue apells measures for expending and reconstructing the existing enterprises within these tridustries and construction of new ones; it also envisages the introduction of new highly effective resource-saving technological processes which would ensure more protound and complex processing of the raw majoritals so as to increase the output of foodstuffs.

The Polithureau approved Mikhall Gorbachov's talks with the Member The Polithureau approved Mikhail Gorbachov's talks with the Member of Polithureau, head of the Permenent Secretarist of the Central Committee of Algeria's National Liberation Front Party, Mohamed Chorti Messaadia, who conveyed to the Soviet leader a personal message from the country's President Chadit Beadjedid. The Polithureau also expressed satisfaction with the positive development of the friendly and aliround cooparation hetween the Soviet Union and the Algertan People's Democratic Republic, and considered as important the links between the CPSU and the National Liberation Front Party of A

Liberation Front Party of Aige-ria. The Soviet Ualon's course towarda stronger relationa will Algeria is a specific expression of the principled CPSU support for peoples moving along the road of independence and so-clo-economic rovival.

IMMEDIATE POLITICAL **ACTION** IS NEEDED

The pivotal Issuea of today are the prevention of the orms space and also the need to curb it here on Earth. The American "slar wars" programme remains a major obstacle to the solution of these issues.

This was declared at a Mosnow press conference attended by Vice-President of the USSR Academy of Sciences Academiclan Yevgeny Velikhov; Director of the Instituto of US and Canadian Studies Academician, Georgi Arbatov; Director of the Institute of Space Research attached to the USSR Academy of Sciences Academician Roold Sagdeyev: Deputy Departmental Chief, USSR Armed Forces Goneral Stall Lt.-Gea. Viktor Starodubov ood Deputy Head of tha Internetional Information Department of the CPSU Cen-tral Committee Albert Viesov.

The speakers atressed time was a crucial factor and that political efforta could not be put off till some time to the future. They are needed as a matter of urgency. Thay said the continuation of the arms race and the appearance of asw race and the appearance of aew types of weapons make dialogue and agreements extremely difficult even today. Scientific and technological progress in the military aphera is steadify exhausting the available time and shrinking the possibilities of tables. king political actions oa problems of wer and peace

(Continued on page 2)

ctage for the Prevention of Nuclear War, emphasizes a point.

Scientific achievaments can

and with he used for peaceful

exptoration of outer space. This is a tangible alternative to the

"star wars" insaatly, the President of the USSR Academy of

Answering questions is e

TASS lalerview, he noted the

practical expediency and feasi-

hility of e world space organi-

Sciences Academician A. Alaxandrov, has mainteiged.

PROSPECTS FOR JOINT SPACE EFFORTS

CHIEA STEATEGIC **HODCUMENT**

(For our Viewpoint picase turn to page 2.)

TERNATIONAL PEACE MARCH

Two. Nearly 300 representatives of the public of some Amerand Europeaa oations ere participating la aa international american in Central America. They have held a earles of reliles insulings in Nicsragua at which they strongly condemaed the climinal aggression against that country.

to Micareguan Government the marchers explosive crisic peacefully, anded the country's determination to solve the Centrel Amer-



is at a meeting in Managua.

Photo AP-TASS

ELEKTROSTAL'S ARIISIS

The ert aludio of a Children's Jouan of Culture in Elektrostal town near Moscow, la known ccasions its Iraineed won tho main prizes el prestigious com-petitiona of childres s drawings. Recently eighl-year-old Asya at the 3rd laternational competi-tion beld in the Japanese Kanageva prefecture. The compaty-lion involved thousands of children from scores of coun-tries. Two years earlier another young erilat of the same studio; Leea Obrazisova, had won the Grand Prix at the same compa-tition; At that time she was awaided a special prize of the ewarded a special prize of the Japanese UNESCO association

were awarded gold medals, and three others—silver.



The award presentation was held at Morcow Friendship House, where another 76 Soviet children, who had entered a drewlage contest sponsored by the Japaeses Nippon firm, elso received prizes.

Olya Trollskaya, also of the Bicktrostal art studio, won gold.

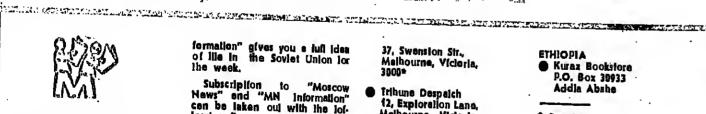
ration is pesceful exploration.
It would be possible to signi-

It would be possible to signi-ficantly expand the practice of sending into outer space joint interplanetary research stations end to jointly launch thierplane-tary spaceships. It would also he possible to think about interna-tional apaca stations and orga-nization of long assemblings to

nization of joint axpeditions to other planets, Academician Alexandrov said.

lests are young girls from the Elektroslai ert studio: Lait 'to right: Lens Obrazisova, Asya Abueloaker and Olya Troig-

Photo by Alexel Producov



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MN INFORMATION No. 44, 14

DISARMAMENT AND DEVELOPMENT ARE INSEPARABLE

New York, The UN General Assembly her completed the deptex of issues involved in illsarmanront and consolidation of intornationel security. More than seventy resolutions were adopted. This year's session of the General Assembly coincided with the internetional community's 40th anniversary, it solemnconfirmed the importence of the Doclaration on the Streng-thening of International Sacurrity tebicd by the USSR and edopled Illiaen years ago.

Savaral documents epproved by the aession point to the exceptional damage caused by the erais race to universal peace and security es well es to social and economic progress of notions. They note that disarmament and

development ere hiseparable. Tire internetional community decirred that it affectes great Importance to Soviet-American relations, its resolution on this tastie wolcomos the Sovict-Anierican Genero summit telks on the whele renge of lesuss involved in onter space and nuclear weapons, and expresses the trope that these will be tackled in thotr interrelationships. II is remarkable that only ten West-ern nations, including the United States, voted against this resolu-tion. In ell the United States voted against in 33 cases, in six of which it found itself in compielo isolation, when maits a concerning the entire set of probleins tovolveil in disarmament and international security, were

Mozambique supports South African people

Maputo. The Pretoria recisi regimo uses ite ermed forces as well as gangs of the so-collect Mozambique Nationel Resisteaca — which is now the racist army's adjunct - to subvert lire economy of Mozemhtque end other Southern Africen atates, Mozambiquean President Somore Mechal hes said here.

The pcopto of Mozembique, he noted, ere resolved to unand their hirelings to prolect the freedom and independence of their motherland.

country's politicel, moral end diplomatic support for the he-sole struggle of the South Airien people led by the Alricen Notional Congress against oppression and rectel discrimine-

France rejects SDI

Paris. President Françoia Miltarrand of France lies retterated that his country will not teke part in America's "star wars" progremme. Speaking to en in-terview with the TF-1 letevi-sion network, he said:

I refuse to be e party to the implementation of the spece wer plan which, in alfect, will lead to greetar internetional tensione

VIEWPOINT

end put Frence in e subordinete position. When t met President Reagan in Bonn ha told me that he wished that France could take part in the SDI es a subcontractor. We have space emhiltona ot our own. Yet in the SDI the United States will do ell the decision-meking, assigning France the role of a sub-

ilinchingly light regular units of the recist South African army The president retteraled his

New York. The heads of etete end government of the non-all-gned movement will hold their eighib regular meeting between August 26 end September 7 in

Non-aligned summit the Zianbabwean capital, Harere. The decision was teken at e meeting of the movement's co-ordination bureeu at the UN

At Anlocov's Irial in Rome: "I can leardity lind any Bulgeriae loot-

AFGHAN-PAKISTANI TALKS TO RESUME

Geaeve. Another round of leika between Alghanielen end Pekisian, with the mediation of the UN Secretary-Ganerel's Parsocel Reprasantativa, Diago Cordovez, has ended in the Pe-tece of Nelions here. D. Cordovez said that the

talks are to resume lete Fcbruary or early March next

Drowing by Vlodimir Sviridov

The Alghen delegation was led by Foreign Minister Sheh Mohammed Doat, and the Pe-kisian aide was headed by his counterpart, Sehlbzade Yekuli

Igor SINITSYN

CMEA MAPS OUT PERSPECTIVES OF SCIENTIFIC-TECHNOLOGICAL REVOLUTION

The CMEA membor-states debate end compromise sofuhave just made a bold move in their scientific ead lechnologicel edvance. The recent Moscow axtreordinary sassion of CMEA haeds of government edopted a Compreheasive Pro-gramme of Scientific and Tach-nological Progress up to the Year 2000, This fuedamonial and lerge-scelo interazional proearth avaluation of the benefits end prospects of the scionlific end locknological revolution. CMEA's working bodies look a record one year to formulate il: in summor 1984 a CMEA summit set itself this lask and by this eutumn its guidalines had been worked out. This prompt-ness shows that the progremme is vitally needed and that meny of its elements have become a necessity both at national level end in CMEA international orgenizations. On the other hand, this is a convincing evidence of CMEA's level of organization end degree of infogration, since such a complex internetional progremme wes edopled in e

short I/ma precicelly without

The vsst talollactual potantial of the socialist community got a trash impalus for creativity; in 1984 there were over 5,000,999 scientists and scientific logistics men la CMEA countries, among them 1,600,900 research associates - noarly a third of the world's figure. Socialts integration as a whole and elso withla tion as a whole and elso withla the Programme's tramawork, boosta this potential manifold the cloar-cut guidelines emphesiae live priority areas of sciantific and technological prograss: alectronics, comprehensive automatics. mellon, nuclaar power engineering, new materials and lechnologies for mehing end machining thom and blotechnology.

The socialist community countries are now all set to practically implement the Progremme end, significantly, it is easily now, when overy country is wading up formulation of its five-year development plans, that the emergency session gave ti the graen light. The ability of socialist integration to advance sciontilic and technological pre-

grass will now be more fully considered and used as an important factor in social and occ-

rating ones.

tagrallon proves that the eco-nomies of the socialist countries nomies of the socialist countries end division and cooperation of lebour among tham are evar more latituanced by scientific and lechnological progross and objectively shows the increasing role in the world economy of infarnational scientific and tochnological contacts, exchange of expartise and purchases and salas of the latest mechines and technologies. Significantly, were technologies. Significantly, over the past decade the world lech-

Among the Council's critical goals now is a fimaly lormula-tion of multilateral accords on programme problems and siricf coatrol of their fulltiment. The lollowing example gives an of the scala of the effort there are plans to conclude, in ilro nasi sis months, 67 naw agraemants in specific areas of cooperation and specify 87 ope-

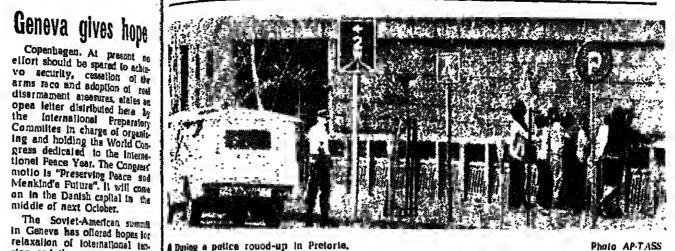
The new stage in CMEA innological market has beemed naarly: fourfold while trade in

licences has topped 28 billion

In its intagration policy the socialist community strongly la-yours normalization of interneilonal aconomic, sciantific and lachnological links and removal of any obstecles and restrictions International economic relato international economic relations. The new Comprehensive Programme lully meets the objectives of restructuring, on en aquitable basis, the entire lebric of international economic, scientific and tachnological relations and establishing a new international economic, order international economic order. All nations, including developing countries, may be sura that the socialist countries as before will atways generously shere with them their actentific end technological achievements. The Programme is totally geared to peaceful objectives which have no relation whatever with the arms race. It has purely humane goals and does not contradict the inforosis of any single peopla or state.

The socielist community of countries call the Programme e strategic economic laver.
Czachosloveh hoed ol government Lubomir Strougal said el o
Kramlin meeting, on behalf ol
the dalegations which signed
this document; We welcome the Soviet initiative in proparing this Comprehensive Programme and purposelul effort in speedity putting final fouches to it. We are happy that Soviet organisations are furning decisive guarantors in thilliting coordinated gools and that the vast economic as well as the respectific nomic as well as the scientific potential of the Soviet country ensures the success of our futura leats. For our part, we ere all prapared to actively contri-

THE WORLD



The scientists said that hear!

ollinents — the world's No. the killer diseases — can only be ronquered through joint efforts. Besides, e considerable experi-

ence has been eccumulated. Twenty-five joint symposia heve been held sinca 1973, when So-

vict-American programmes for cambatiling etheroscierosis were formuleted et intergovernmen-

San Prancisco. The US State

Deperiment bee velocd Amaricen

television broadcasts of the die-logue between Soviet and Amar-

withdraw ell its troops from the

withdraw ell its troops from the Arab territories occupied since 1867, the Polestinien people must be gueranteed their legitimate rights and all the countries in the region and the PLO must have the right to extend

concrete programmes to the cur-

tel jevci.

During a potice round-up in Pretorte.

Erk South Africane are still howcotting abops eved by whites. This moss protest has effected easy sreas and practically poralized trade in Pracing Johannesburg and several other cities. Protes of white-oweed shope heve dropped by 90 per

Fearing the scale of the "black Christmas", as South African authorities beve dubbed the boycotl, the raciets have mounted repression egainst the boycotters. Reloforced police units to ermoured care are patrolling strasts in cities, trying to put days, the boycotl by force of arms. down the boycoll by lorce of arms.

Cardiologists hold 'space' conference

loscow. A meeting between del and Americao doctors held recently in Moscow "I Washington simultaneously, offiss "Meditatioskaya Gazeta". Be doctors, watched by their deagues in New York and Angeles, took advantage of devision bridge mounted by the Sovist Gostaleradio organi-tion and the US information ency between the capitals of

two nations. The ure of outer spoce for poses like exchange of inmailou as well as artistic oming more and more route, the newspaper remarks. Twever, for the first time, wee has linked two continents a purely professional discusthe collegium of Amerin cardiologists and the All-alon Cardiological Society to suss curreol problems in the hemic hasrt disease.

slocks. To our profound regiet the United Siets has not up to the Pope urges now followed our example. We ere ready to extend the USSR-introduced moratorium on USSR-introduced moratorium on nuclear explosions if the United Steles reciprocales. We are ur-ging the US administration to do Ihal. A unique chance is still to the US administration to greater dialoque

mulust and to axtend it beyond IMMEDIATE POLITICAL

IS NEEDED (Continued from page !) We publish helow answers to some questions posed by

ACTION

sion sad the creation of condi-tions in which arms conirol could be effected and disagra-

ment reached, the letter stresses.

At present II is important to do

everything to speed up the talkr elimed at preventing aims race in space and ceasing it on Earth

Mikhail GORBACHOY:

To pass on from

to disarmament

competition in armamenis

[Continued from page 1]

The Soviet Union will go as

manients to disarmament, from

far es needed loward complete

elimination of ouclear weap-

val of the threat of nuclear war.

We ere for the immediate

freezing of nuclear arms for complete and termiess ban of

their tests, with the most ellec-

Live verification. Reciprocity is

leader pointed oul.

our only condition, the Seviel

cleer explosions, announced by

the Soviet Union from August 6,

this year, has been highly ap-

precieted in the world. Making

said, we proceeded from a sin-

cere desire to break the victors

ctrcle: to slop the andless so-

phistication of nuclear weapons

and to sieer maiters to an actuel immobilization of their

there to make the moratorium

The moretorium on all nu-

confrontetion to cooperation.

nelists at the press confisence. The Impression we have now la that the ruling circles in the United States are scared of the United States are scared at the Unifed States are scared with a Genava summit and are exerting more pressure so that instead of treading the Genesa road, affairs would be conducted along their countracks. This ted along their own lacks. The would be very unfortunals

dangerous.

Geneve has deall a sevel

Geneve has deall a sevel blow to the vile anti-sorie propaganda. Specific deeds at posaded oow, it is imposible either to avade them or to be ge them with reservations. ga them with reservations,

ett le not the danger Sit creates that we lest most was should be feared to Europe and in America and in all the of the world is a multie of complete strategic chaos and un-restrained arms, rock All the could bring outlear war have. MN INFORMATION NO. 97, 114

scon go on Irlal. INFORMATION No. 97, 1983

JAPAN SOCIALIST

PARTY'S

PROGRAMME Tekyo. The drive for peace prevention of nuclear war, op-posing the US administration's aszardous plens to lurn outer space into an arana of millery confrontetion; ensuring e preceple and defending their rights and interests—these ere the 1986 priority objectives proclaimed by the Japan Socialist Perty at its

recent 50th Congress. A programme edupted by the Perty commends the Soviet Union's determinetion to echieve detente end disarmament and elso the outcome of the Soviet-American summit in Geneva. This event, the document em-phasizes, showed a trend towards a transition from the nuclea arms race to disarmement, from escalation of tensions to detente.

SIKH EXTREMISTS tcei melters. Peking's stand on Israeli

Rome. The bead of the Roman Gholic Church, John Paut It. aggression Peking. The Chinese Foreign Minister Wu Xueqian hes said at a press cooference ta Ammao thai bis country will not eslebtish diplometic relations with Israel until the letter changes its policy of aggression and expansion. The Chinese naws egency Xinhue reports the minister as saying that China's attitude to the situation to coosistent and clear: Israel should withdraw ell tu troops from the as seld here that the world Fils on a vary Iregila lounda-

e stressed that nuclear weaare a big menace, hence impsrativeness of talks on reach agreement on measures it lesses the possibility of a

The road to universal end sing peace lies in constant alogue amoog nations, the amphasized. Today this alogue is as vitat as never before appearance. he, especially at Geneva, ration and limitation is now

BLESSING ARMS RACE THE

lyashingion, The House-Sena-te Conference Committee has sproyed e bili allocating an expressed and an dolfor Delense Depertment

ballistic missiles, over two bil-lion for developing the D-5 in-tercontinental ballistic rocket PEOPLE for "Trident" submarines, end over five billion for buttding 48 tendon police recantly cra-ned a dope puthers ring in-initialisms revealed that it in-inved Marquess of Blandford, B-1 strategic bombers. aphaw of Winston Chur-

The Committee also agreed to raise from 1.4 to 2.78 billion funds for accelerating the "star funds for accelerating the "star wars" programma. According to "The Washington Post" the pro-gramme chiefe are already planwindnaphaw of Winston wind-bill. A resich at his ville uneer-bed e substantiel quantity of worth 50,000 pounds twiers reports the Blandford, nlog to speed up the testing of the nuclear devices to be placed in orbit.

logue between Soviet and Amaricen cardiologists. Reporting this, the Weshington correspondent of 'Los Aageles Times' points out that the ban was imposed by a bigh-raoking State Dapariment official who opposed to "publicizing" Soviat doctors on Amarican television. According to a promisent Amarican devision. cording to a promisent Amer-icen doctor, debates pariict-panie did not discuss any polit-WHO BACKS

New Delht. The Indian Gov-emment has Irrelutable eviden-ce that Sikh seperatists seeking Punjab slate's secession so as to loued a Halistan siale on the same territory, operate from the United States, Britala end Caaade. This was revealed by the Indian Minister of External Allairs, B. R. Bhagat. He said in a parliamentary debate ibal the indian Government wanted the Isrrorisia' extraditios from the West.

Locat newspapars assert their India is laced with the unwiltingness on the part of certain Western circles to expel the hardened extremists from their

Science and technology

LIVE INDICATORS

Czechoslovak scientista have conducted an lateresting expeconducted an laterestiag experiment. A few years ago they sowed a aumber of plant varieties along gas pipelines to determine how ges effects their development and the colour of their flowers. After observations it was established that in case of eas leakage into soil, even rent 1986 liscal year.

More specifically, the bill sets
aside 1.7 billion dollars lot the construction of yet enother 12 MX Intercontinental first-strike of gas leakaga Into soil, even in the smallest amount, some plants undergo coorderable changes. Alfalio reacts to the changes of the changes with patticular, expressiveness This is the vary plant that can be used as a reliable indicator. of the tightness of pipelines.

HEW MEDICINE FOR CANCER

in their joint experiment Japages end American scientials

For several years Max Block, a teacher in a small township, has been shelfering and leading hundreds of clocks brought from Algeria, where these blids habitate permanently. The blids began to form polis. Bome of them even stay in the lownship for the winter, others is start, in epting ares wintering in other rountries.

FROM the SOVIET PRESS

JAPANESE WANT BLUE HELMETS

The Jopunsse Foreign Minister, Shintoro Ahe, has tabled in parliament a proposal urging it to examine the possibility of Jopunsse troops participating in major reduced discaler rescus operations abroad, like in the recent Mexico carthenaks of the voicenic eruption in Commisse. He described as o mojor task the passible use of the self-defence lorces out-side Japan for peace-keeping purpases and for randering os-sislance to victims of natural catostrophes. Vsevoted Ovehinnikov PRAVDA'e politicol onolysi, writes in one of his recent atteica.

Same people in Tokyo have been discuning for a long time of putting blue homets on Inpanese soldiers in order to include them in international UN peace-keeping lorges, noise the outlan. These who would like to anout Article Nine of

the offinal. Thaso who would like to annut Afficle Nina of the Japanese Constitution renormaling the creation of a Joponesa ormed forces are tooking for a protext to teel on illegality-latmed body of soldiery outside Japan.

It has been a long-nourished plan by those who want to toke advantage of the UN helmels to create a tegal precedent for Jupanesa armed forces porticipation in operations and, in this way, remove the last thing areventing Jopen ham becoming a military passes.

BONN AND 'STAR WARS'

In Bonn the question of West Germany's participation in the so-called strolegic delence initietive" [SDI) is regarded as a largone conclusion, writes tZVESTIA's Bonn corres-pandent Ye. Bovkin. The only tiring to decide is how and

the most appartune time to do this.

The tastre ni joining the SDI did not go of oil amouthly, notes Barkin. The giorp of most authrini Christian Democra-tic pulliterias gothered around people true Dregger, Toden-biler, limpka and Grafa — secions detenders of the "stor wars" project — are popularly known as the "steel ticiniels",

was" project — ne populoty known as the "steet ticinets", the name given to toract crack nazt authinats.

Within the ruling coalition, the "street helacis" are opposed by the "genschettee", a group of modernies rether cautions in their approach to licegan's SDI They rightly anspect that the participation in the American programmo will not give West Garmony the premised technological boom but to the place on additional burden on the economy and ercoto-

security problems.

The until of truth is the anily simple one. Montaigne used to say. The soul inken by there concerned with their personot gates is unevenly split and whinisted. The rood of Wast Germony's intent on tying Europeon security and the inte-tests of the military industrial complex the Pentagon and NATO into a single knot, is split talo two uneveo parts todecd, notes the conceponden

PHARISAICAL SADNESS

For the tirel time Jonusty 20 next year will be celebrated os national doy la commeniacio i the birth of Mortin Luthor King, the aident lighter for civil rights in the United States ossassionied by rocists on April 4, 1968, writes A. Lyutyl, KONSONOLSKAYA PRAVDA'S tVochingion correspondent. The decicion to celebrote Martin Luthor King's birthdoy is all the more sacrifications, since the present govern-ment has deatt a particularly hard blow at block American citizens. The White House has actually written the black

population completely oil. It completely ignoree its needs and interests, says Coretto King, widow of the civil rights leader. The powers that he have always hared Martin Luther King, he stresses. The man who played a crucini role in mobilising (in the 60et the mass black civil rights movements was hunded down. He was shodowed and blackmoticd.

LESSONS OF NUREMBERG TRIAL

osts factor almflar to the oco

In the human body as e coturel antidote to cancer. Testing this

preparations in mice they succeeded to treating a malignand lumour producing rapid metastases to concer on the colon.

The French Renault company has started the production of cars driven by votes. The car

obeys more than 20 commands;

switch on headiights, turn left

or right, raise or lower the

glasses and so on, The vehicle

obeys the voice of the owner.

which is recognized by e micro-

processor built in the car. For this the owner must record all

VOICE INSTEAD

OF A WHEEL

the commands.

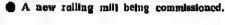
Over lorly years have passed aince the afort of the historic Nuremberg triol of the principal nazt military criminals who prepared and unleashed the Second World Wor — the bloodlesi in human history — writes Condidots of Sciences (History) V. Syomin in KRASNAYA ZVEZDA.

But there are people in the West who now question the justification in the sontences handed down by the court of nations and ottampt to whitewosh the nort criminals, the outhor continues. Noturally, Soviet people are indignant of this. To take all the plundered agricultural products out of the country the Germana used over 1.4 million railroad cars. Also, 4,978,000 Soviet citizens were driven.

tion ratifoad cars. Atec., 4,978,000 Soviel citizens were drivant to Germany of slave labourers and there was on unspeakable terror campoign against the civilian population.

This should be remembered olso because laday oil manner of theoriels seek to reonimola lascism by "orgumonis", pretanding that the lascist regime was advancing the "national interests" of the Germans, V. Syomin odds.

For more than 30 years storks have not built their nexts in Switzerland because of the increasing number of populated districts and industrial cones. Bul now, thanks to the ellorie of o passionate nature lover, the country now has over 40 nests of these birds.



Why the giant rolling mill is needed

The ceunity's biggest shest rolling mill - "5000" - has produced the first loans of rolled motal et the Leningred Izhorsky Zevod es-

The mill le meant for turning aut unique products. Relied sheet up to 5 m wide and from eeveral millimetres to belf a metre thick, will be ableined for his first lime in the country. The weight of the relied sheet from speciel steel gredes will be up to 90 tennes, in pewor engineering such plates will replace larged blanks. This will casure an unprecedented saving of metel during the construction of nuclear reactors — up to 1.000 tennes per reactor with a cepacity of one million kilowalls. In shipbuilding big-size sheets will halp reduce 1.5 times the volume of weiding work. Thus, large-scale utilization at the culput of the rolling mill "5000" will produce a major saying for the national economy.

Round the Soviet Union

THERMAL STATION A THERMAL STATION
ATOMIC REACTOR HAS BEEN SHIPPED ALONG THE YOLGO DON CANAL FOR THE FIRST rime. The delivery of this lirst elomic holles in hinge units from the Alommash warks to Gorky by sivor miner thee mil helped not only markedly cultrasportation costs but also reduce its assumbling time by 40 days.

THE MAIN INVERTED SI-PHON [OR STRAND] IN THE YAMBURG-YELETS-1 GAS PI-PELINE HAS BEEN LAID AC-ROSS THE YOLGA RIVER, A PIDE of enlerged dimmnler-1420-millimetre—has bann pinced into its irench. Tegeihar with sinkers, tha siphon wolghs nearly six thousand lonner. This is that seveeth pipnline to ho inid ac-

Katun HEP project

The campissianing of the Ke-iun hydropower electric station in the Aliai Mountains will annually edd another six billion kilowatt hours to Siberia's po-

The designers choose a good sito for the station's construc-

New excavator for Nazarovsky quarry

Alter an eight-kilomeire trek, the country's biggest welking excavetor ESH 100/t00 started working on a new section of

the Nezerovsky quarry in Kros-noyarsk Territory (Siberia). The machine, weighing over 10,000 tonnes and with o hucdred-metre hoom, mede such e long jaurney for the first time across lowlande and marshes. Curiously, e rallroed which berred the machine's progress al one point had to he relocated. The excavator will be useful in

for mining during the 12th Five-Year Development Plan period (1986-1990). Ellective use of high-cfliciency complexes, brings the annuel output to two million tonnes. In 30 years over 250 million immes of coal have been quarried here. While finishing off the resources of the old open pit new creae are clready being prepared for mining to halp raise oulpul of coal for Siberian powar stations to 15 million ton-nes a year.

tion. It is located some tens of

kilometres away from the town of Gorno-Aliaisk where the

banks of the rapid Kelun nearly

convarge. This will belp span tha river with a 200-eletre-bigh

dam et a very low cost. Tha

not cause any damege to the environment, since the dem is far eway from forest areas. Tha 1.5 million kilowotts sta-

tlon will nieka power supply for the fast-developing industries in Aitai and Kuzbass more

A twenty-kilometre dem has lurned the natural depression of Sullanssnjar in the north of the Kyzylkum Desert (Central Asia) into an artificial lake. Water will llow into it from the Amiidraelectric complax hullt join-

At present, the total volume of all the four reservoirs of the complex is 6.0 thousand million cubic metres. This water has made it possible to reclaim nearly threa hundred thousand

reservoirs - of 7.8 thousand million cubic metres - will be reached during the 12th Five-Year Development Plan period (1986-1990). This will increase the area of farmed land by another 200-odd thousand hectares. The complex is built with the

The complex is built with the use of the latest scientific and technological achievements. It is fitted with automatic end remole-contral machines. The reservoirs regulate the water discharga in the Amudarya River and service as trape for spring and eerve as traps for spring flood waters end landslide mud. A HEP built in the area sup-plies electricity to Uzbek and Turkmen farms and several ci-

mechanism at work

Acceleration

By the year 2000 the USSR will have created an industrial potential which will equal in scale all that bas been built up elnen 1917, that is, over the previoue years of Soviet power. This ie stated in the Draft Guidelinee for the Economic end Social Development of the USSR for 1986-1990 and for the Period Ending in the Year 2000 now being discussed throughout the country. Even today, the Soviet Union, with its population of 277 million, or elx per cent of tha world's tatat, produces more than 20 per cent of the world's industrial outpul.

Tirls constitutes a solid basis for further development. But it is essential that this base is used with higher efficiency. The tesk is to be accomplished with new economic methods which era to consolidata the planned principles of management in the top echelons (at the ministry levell, on the one hand, and t enhance the economic indepen-dence of various industries, on tha other. In 1984, five government ministries introduced the new menegement methods and thie year the economic experiment is on a national scale. 25 ministries eccounting for nearly 12 per cent of the country's in-dustriel output have edopted the new management techni-

In 1986, the lirst year of the new five-year development plan, the new methods will be used by one-third of all Soviet Industries which are responsible for the production of more than half of the Soviet industrial merchandise.

Another artificial lake in Central Asia The intended volume of the

darya River elong a series of canale recently built here. Fil-ling has begun of the fourth reservoir in the Tuyamuyun hytly by specialists from two con-stituent republics — Uzbekistan and Turkmenta.

GLACIATION? Yevgeny Borisenkov, Director of the Moin Geophy-sical Observatory of the Stote Committee on Hydro-meters and Environmental Manifacing, expresses I believe that the World Ocean plays o major role in the lormition of climote. This is confirmed by exhousive research. One single phenamenon, such as the El Nino current, in which worm waisis in the Pacific

have emerged to the surface oil the Peruvian Bhore, is

tam's pioneis on the Earth's orbital paromoters greatly influences climate changes. Infarmation ablained through observations provides the influence Hamishets over the past thirty years, the Northern Hemispher has onleted the eloge of short-ferm weather cool-of viewed ogoins! the hackground of a glabol cooling of the climote. This hoppens because the Berth's axis it becoming inclined oil the mare, thus reducing the property of the climote of the mare. amount of solar rodiction in the Northern Hemisphe in the lujure this uniavourable shuolan will disk even warse, in chother fen io twelve thousand years, unless monkind linds a way to salve this problem it is quite probable that a slaw new glociation will state. concludes the ecleniist.

servation measures alone, the scientist said. We have felled so isr to achieve the desired effect only

beceuse of the modequacy of technical feclitiles and exceselvo concentration of pollution sources on a reletivaly small territory. Vladinirov pointed out their

that the ecological problem cen-not be solved with local con-

OME NEWS

URBANIZATION

-els it important not

taively to processes
escological situation
see its development
reduce to a minimum

raused to nature by

an urboecology, has

Soviel cities to re-tresiment facilities.

refe free end effiu-

shologies, provide

ier neutralizing ex-

and to plant trees without buildings.

hary all-round ane-

plate of the environ-

15 urban sglomera-

4 Soviet Union show

17 of them the state

nonment does not

thygienic standards.

ed deviations from

a centres,

e been registered in

intercity spaces suf-

k e very alerining

es to visit

work is under

the criterin used by Soviet specialists for assessing the quality of the netural environment ere nuch more stringent than those used in any Western country. Thus, permissible eir pollution levels for Soviet chies are incomparably lower than standards operating in the US. But however radical environ-

mental measures within one country moy be, they cannot be fully effectivo il in a neighbouring country the environmental problem is not given due at-tention. Thus "acid rains" lelling in Cenadn are formed in polluted atmosphere of the

Science and technology

COMET SHOWS VISITING CARD

Valuable information ebout the physical naturn of Halley's comet bes been obtained by the Crimean Astrophysical Observe-tory of the USSR Academy of Sciences. The comet, which is Sciences. The comet, which is moving ecross the consellation Pisces, is being observed through ell sorts of telescopes.

The astrophysicists began their first photographing e year ego. At that time the comet geve off one-millionith of the light required to see e celestial bedy with the naked eye on a clear gight without the Moon.

clear night without the Moon. Tens of negalives showing the comet bave been obtained, enabling the astronomers to lind out its precise position. The photogrephs show that se the camet epproachee the Sun, the type end the size of the gas envelope surrounding the herd nucleus change. A smell tell is

discernible, and signs of activity

Large telescopes heve helped, for the first time in this country, to register specire as tho

main source of information ebout the comet's cherricel composiiion and physicel etete. Preliminery anelysis of the spectre hea shown that et its head the come! has molecules of cyae, Iwo-and three-atomic carbon and e numher of other elements. Detailed enelysis of informatien is con-

SEISMIC PROSPECTING WITHOUT EXPLOSIONS

Tesls of Selemokod installa-Tesis of Selemokod insialiailons, develeped by sclentisis in
Kharkov (the Ukralea) lor geological survey of the eerth's
bowels without explasions, have
been completed. The instaliation, mounted on a motor valicle, sends into the hawels, in eccordenco with a definite fixed programma, a series of powerful mechanical pulses — 200 impacts in 10 seconds. This arising seismic waves pencirete scveral kilometres deep and return to the surfaco. Sensitiva instrumente Irep them and pass over to e campuler. Having processed the deta, the compuier produces the characteristics of the geologicei section of the eerth's leyers, which makes it desible to determine the places drilling prospecting holes.

'CONSERVED' MICROBES

An original biolechnological process, that mekes it possible to use much longer the vetuelile properties of intercorganisms, has been suggested by scientists et the institute of Microblology of the Armenian SSR Acedemy al Sciences. By means of these microorgenisms the Lizin production ossociation in Cherentsevan has started ossembling a imposfer line to uilliza this novelty far the production of valuable components of protein — indispensable amino-

fn industry aminoacids are obtained by the method of mi-crobidiogical synthesis. How-ever, the cycle of life of microorganisms turning out the need-ed product is short in such coned product is short in such conditions. Besides, in the industrial cycle energy and raw material expenditure is not used fully. A greater part of them is used to grow microbes. It turned out that this shortcoming can be removed if microbes are introduced into the executive of a specially selected. bes are infroduced into the structure of a specially selected polymer. In that case their useful properties are es though preceived for six months and even more. The new technolo-gical process is based on this, gical process is based on this, it can be easily controlled, is practically continuous and—the main thing — is very accommicel. Thus it has become possible to considerably increase the production of eminaecids badly needed for livestock breeding.

VIEWPOINT

OIL AND GAS **EXTRACTION** IN THE NEXT FIVE YEARS

Venlamin KARPOV, deputy bead of oil and gas department, USSR Sielo Committee for Science and Teche ology

The Soviel Union's shero the world off production (loge-ther with gas condensate) ex-ceeds 20 per ceet, of gns — 34 per cent.
Western Sibaria is the main

source of the country's oil and gas. It eccounts for over 60 per cent of hydrocarbon fuel, fa lbe 12th Fiva-Year Development Plan period (1986-1990)
Snviol oil production level will
be datarmined by oil licide in
Tyumen. Production will grow
simultaneously in Kazakhsian
and European North, oil exploration will become mora active lu Essiorn Siberin and on the cardicentel shoil.

These end other underground ireasuro troves are mainly si lucted to almost inaccessible and uninhabiled erces. It lekes considerable elferte and htgb expenditures to extrect and trenspert oil nyar thousands of llometres. For exemple, in tha latest decade expenses on oil production elono trebled,

Tharelore, it is impertant t get the meximum from each terme. The first results are mher bopcful. Far example, in 1003 the production of light petreleum producte grow by per ceet when the amount of retined oil went up by only one

per cent. But the deposits, even the richest ones, orn not inexhausi-ble. Gredually tha oil llow from the bowds ni ibe earth reduces in encb traditionni ercas as tha Ukraina, Byclorussia and tha Northern Caucosus. This is cnnoecled with the laci that mnra ban 50 per cent of oll remains In the Isyers and it is difficult and sametimee becomes even impossible to extract it by diliceal methods.

Physico-chamical, thermal end other mathode of influencing all-bearing beds come to aid.
The use of these methods makes il possible lo raiso oil yield by 10 per cent and more, and to additionally obtain tens of millians of tonnes of oil. 1988-1990 the new methods of reising oil yield in the total amount of extraction will more iban double. Most wolls will shill to the mechanized method of production.

The lask of the gas todustry is to compensate oil redection in the USSR power balance, cover the mounting requirements in fuel and energy resources. At present the above of indural gas in the about 32 per cent. The energy resources about 32 per cent. The energy programme envisages bringing gas extraction to the optimal level by the middle of the '90s and then slebilize !!. In the 12th Five-Yeer Plan

period the main growth in na-Ynmburg deposit situated 200 km north of the Poler Circle. Another six large-diameter gas thor six large-diameter gas pipelines will be laid from here

to the centre of the USSR, Gas-mnins with a total fengit of 36,000 kilometres have alres of 36,000 kilometres have already been faid in the current live-year period. This has made it possible to improve gas supplies to central and western districts of the country and to use, on a broader scale, netural gas in production as well as for domestic purposes.

The unitiest system, the world's biggest as to its capacity and ramified structure, supplies gas to more than 6,000, differ and settlements and elso 157,000 rural populated airset. At present 205 million Soviet citizens use natural gas.

INTEREST

Wmacy-sweep Mariinia

Mays walls with im-and some sense at an-in the coming at the st. During this time it is belier not to go out these becouse every

of contrives to borraw sold from the funia worst comee to thin

diouch the sleeve. But

the all in a idmily.

ATION No. 97, 1985 .

Mey-sweep

Odankina Esiele Museum of Serf Ari le a stary erchitectural ensemble in Moscaw. There just campleled work on the gal-Mag la the lialian pavillon. In their work hi many difficulties. All they had as e the two very old photographs and e documents from the museum's describing the interior of the palace. highests and details of the interior hed ist. Today, the museum slands in all its based in light blue, purple and terra-cot-

Il is remarkable that the main material used by the mastere was wood. The panels on the hy the mastere was wood. The panels on the pylone creets the impression thei the composition made up of musical instruments, liowers, and petterns is ceel of bronze. This effect is produced by gilded wood. The restorers often substituted on a meterisi for another. This technique known as "the game tradition" wes widely used in the 17th century when the palece was being huill. The geriands on the pedesials for the caryaight ere made of payler-mache and look as if they are cast of bronze. The surface of

circle. To keep up on analent tradition, in the first day of the

New Year Martinia Bombis trise to visil every house in which he works as o chimney-swamp to

If omen is to be believed this

brings joy and accord through

out the new year, expining ham-his, though there ore no mirao-

los here. Judgo lar yourselvees il something is wrong with the chimney draught, it means that the stove cannot be ill and din-

the stove cannot he til and dinner connot he cooked. And
when it is cold in the house relations cannot be warm either
but when the chimney sweep
comes, everything falls this
places so, you see we hring
happiness to people.

nappiness to people.

wish the haste happiness .

as if they are cast of bronzo. The surface of the haltom section of the wells is made of wall paper skilfully peinled by hand to resemble

walle the graate particoss, mirrors bemmed by

gill carved pellerus, snow-white caryatide and

duce the impression of eplendaur end opulence.

decorative panals on the cailings end wells pro-

inna KOVALENKO

FROM the SOVIET PRESS

EXPLORATION DRILLING IN ANTARCTICA

An exploration well drifted in Antorctico has reached the depth of 2,202 metres—the deepest ever drifled into ico. Very soon, Soviet Antorciic explorers will continue drilling the statue well near the south geomagnetic pole, IZVESTIA reports. The need to look into the depths of the ice

cover inced the explorers thirty years ago, at tho time of the little Sovict Antarcile expedition. However, there were technical difficulties which did

not oflow drifting of that time; neither the tools nor the drilling methods at tha time were suitable for the purpose. The eearch for materiois and methods of driffing wore joined by numeroue scientilic organizations which have now worked aut the method of drilling. A probe ittled with a heating clament le lowered into the wolf on a coble to "thew" through saveral metres of ica of

Significantly, the drilling is accomposited by sampling. The sample yield interesting information chout the temporotures of the tee ut different dupths, its cheinical composition and mineral inclusions, writes the

'LIVING' CENTRIFUGE

The name of this method of treetment, grovintlen surgery, has spoce essaciations. These esseciations are made even stronger by the machine which doctors use in this method, it is hasically a centriluge used to iesi cosmonauts stemlna.

This machine designed by Moscow biaphysiciste to interesting in that it combines man and machine in unique symbiosie. Leaving the human body, a putient's blood posses through vorious pipes and channels and returns in the body without dangeroue sickle cells, reports the VECHERNYAYA MOSKVA newspaper.

Gravitational surgery has given doctors on eliective tool for combotting the offermath of burns. An emergency blood imposiusion only helps cope with the shock which follows a severe burn. The main danger, how-Droducie Irom damaged itsmes can polson the bady. The new machi-ne can remove taxic substances from the body and savo the patient's tile.

FOLLOWING TYPHOONS

An International crew of Soviet and Vietnamese weother larecasters have been exploring the typhaans orising in the South Chine Sea for almost four months, selling on board the Soviet exploration vessel—"Pri-bal"—reparts the newspoper PRAVDA. Over the manths in the Pacific, they witnessed the emergence ol elx ireplical cyclonos, lour al which later moved to the Sovisi For Basi. At one point, the ship was in the centre of one of the nascant cyclones.

The expedition helped the Vietnomesa scienties, who do not on yet have each ships of their disposal, gain exploration experience in the typhoon zone within the immediate vicinity of their country's coasi.

The newspaper stresses that for Victnam the study of tropical typhoans is of particular importance. Despite their sad record, great expectations are set on

these natural phenomena. As a rule, typhaans bring copioue roinioli ascessary for the cultivation of rice and other crops which require great omounts of moisture.

WILL THERE BE ANOTHER

However, this is only one link in a long chain of processes which are part of the so-called southern oscillation between warm and cold cantres.

Apail from the oceans, reaction of the Salor Sys-

FOREST INTACT AFTER MILLIONS OF YEARS

Fossil botanisis from the Tajik Institute of Geology recently welked through a forest which grew millions of years ego. Remnants of frees detected by the Yagnob River severbly years ago have become a subject for speciel studies which have given the scientists a fuller picture of the peture and climate of the time of dinosaurs. Many of the plants are still like they were during the time of the dinosaurs. Petrified boles of trees are clearly visible on the shears of the mountains. The trees an according to the shears of the mountains. The trees annual rings make it possible to establish the age at which they stopped growing.

There ere many lhickets of horsalells end ferns. These pients which like wermth end moisture grew here because in their lime the climate in Central Asia. was the same as on the coast of Australia today.

All in all, fossil botanists have discovered and described

more than fifty types of ancient plants. Some of them are rere-like ginkgos, which are almost

extinct.
So far the scientists have discovered things which its literality on the surfece, Further excevations will reveal many interesting and possibly unexpec-

MN INFORMATION No. 97 1941

PROFILES

The animated cartoon "Cockand-Butt Storles", authored and directed by Prill Plim, director of the Talliantilm Studios, has been ewarded the Mata Prize at the 1985 testivat of animaled carloone in Varne, Bulgaria.



Scenes trom csrioon tilm "Cock-and-Bull Stories",



Prilit Parn's children - Maria and Milhkel - ere fond of tisteolog to their tather's exciting stories about his trevels and browslag



The tilm urges people to spend every miaute of their time rationally. In that case it will be possible to do everything what has been planned, everyhing that is essential,

Pritt Pam cama to this field ln cinoma in an unusual way, A graduato trom the biology deparlment of Tarlu State University, he worked at the Tallinn Bolaalcal Gardens and took up ecology. Along with stadies, very scientific and serious, he was keen at drawing cartoona. Soon the merry drawings of he participaled in the teature
"Arebella — Deughter of a Pirate", and in the film "The Last
Relic" he was togather with a
group of stunt men. Priit bogan to appear in the press parmaneatly. The young salt-taught Estonian arilst became seriousty laterested in aninaled carlooss

Soviet-American * cultural

An agreement on exchange leaves summit we specific deeds, James Hitch, or cxhibilions between the line Baker and McKen-USSR and the United States with a 9th annual meeting along the Moscow by Years 15e US-USSR Trade and Zaitsey, tirst deputy Ministrate Council in Moscow, Cultura of the USSR, and Hammer, Under terms of the agreement was of politics, he said.

Armand Hammer. Under a terms of the agreement that of politics, he said tamous canvases of impressions had been established. The Hermitage and the Public good words should be Museum of Fins Aris are he of by deeds. In trade, we shown in the United States, Tamo the doors for mutual collections from the US are in goods and technolo-Armand Hammer's "Five Cost in the own we still have ries of Chefs d'Ocurre" only indicances to the excollection from the Washington of US-Soviet trade. National Gallery will be should be incomest, these are the in the USSR.

earning

In the USSR.

Selfcling American extending the USSR. In order to t ha two countries.

FACTS is to an open and friend-and EVENTS suppers. I think that busi-representatives telt that

Tours. The Byalorunian Street in Moscow. Let our Folk Choir is on a tour of themse know about what Chinasa cilias of Paking Out of like to buy from the dao and linen, it will perform the Sates. We, on our part, Russian, Byolorunian and Utty the things we lack nian tongs and dancas at the performance certain goods about World War II.

The better and cheapsr. Farlivair. Sovial art at the sell only benefit the two

Farilvair. Sovial art at the sum of the land international (stilvair) and the specific steps to the specific steps to teningrad-based group, those a Soviet-American relagraphic Miniaturar lad by Artificial not be expected li-Makarov. In Colombo and other temorrow, it will take clies thay will show an end pattence. Fortunally, war composition, "Hirelines has shown that the Solwo miniaturas—"Rodin" the Dying Swan", and other Americans should learn productions by the company founder. Leonid Yakoboo its.

Works hy young choraographet Alexander LOPUKHIN of Leningrad will also leafure.



ON SOVIET-CHINESE

The Chinese newspaper "Jung-ji Cankao" has published an article obout a Soviet pavilion at the international tair ASPAT-85 recently held in Peking. According to the newspaper, a particular impression on expents was created by alectrotechnical equipment and various machine tools, including those with numerical programme control.

Among the exhibits worth seeing were not only mighty and heavy dump-trucks, writes the newspaper, but also Lada paa-senger cars hullt by the Soviet Union to cooperation

Lenio Central Stadium, Palece

Sport. 21 - laternations

The two remeining mat-

nement of teams from five

WEATHER

December 21-23

In Moscow, city and region, cloudy with bright intervals,

light mow, SB wind veerlag to W, 5-10 mps. On December 21,

alghi temperatures of —20°, —25°C (up to —20°C in places) and —12°, —17°C in the day-

time. Laier frosts will subside

with eight temperatores of -10°,

-15°C rising lo -4° -9°C

during the day.

"Izvestia" prize fournament. Ca-

nada vs Finisad, 3 p.m. USSR

vs Czechoalovskis, 6.30 p.m.

TRADE

CMEA member-countries. Thesa cars anjoy sleady presilge on the world market. Sovict aviation industry presented an ex-hibit which it can undoubtedly be proud ol—a modal sirbus IL-86 jet . plane. Visitors wera able to see multipurpose nigh-ly-manoauvrable belicopiers used

tor mounting oil derricks, transporting large-sizo cargoes end In the course of the lair Sovict end Chinesa experis held many business meetings and talks. Contracts worth a total of tour million Swiss Iraacs were signed. Soviet exports will includa mainly textlla looms and moior vehicle repsir machine tools end equipment.

MAKHIR colours in Arbat Street

MAKHIR Hungsrisn Publicity MAKHIR Hungsrish Funicity
Company, a big advertislag enlarprise, turaed 75 this year.
To mark the jubifee, an exhibition of the enterprise's products
has bess mousted at the premises of the Hungarish Trade Mis-

Our present-day enterpriss cannol even he compared to tha modesi advartising agency it used to be in 1911 when it was established, said Gyula Kovacs, Director-General of MAKHIR The company has business contacts with dozens of foreign countries. We have close ties with Sould oversity the contact of the countries of the with Soviet organizations too, in particular, with Sojuziorgickie ma ond Vneshlorgreklama fore-igh irade associations I'm sura Muscovites know very well the shoa-shop oo lhe Leningrad Highway deporated hy our spe-cialists. We were likewise hap-

ciafists. We were interests appy to take part la decorating Arhat Street, a beautiful historical pisce, in Moscow. Sun-shades to be set there have been designed by our artists.

Ours is a two-way cooperation, G. Kovocs continued, for the part was make good use of example, we make good use of Soviel postera

AIR-CUSHIONED **CARRIERS**

Cargo illoating in the airl This picture, still not very customary, was demonstrated to participants in a symposium held by Solving company ex-perts with the assistance of the Finnish-Sovist Chamber of Commerce ollice in Moacow.

Today air-cushioned carriers can perform many operations—boist and lurn, say, heavy diesel engines, ensuring the con-venience of ibeir assembling and adjusting. The "record weight", hoisted by a carrier of this type, liss already reached 4,000 lonnes. Such mechanisms must not necassarily be control-fed by an operator: its tunctions can be successfully undertaken

case, carriers "independently move along a presci Irack.

Oa the Soviel markel wa rapresent the interests of simost 50 Flunish and Swedish tirms, said Y. Peananen, menaging director of the Karelia trade contpany. Solving is one of them, Running on an ordinary shop nelwork of compressed air, ira conveyers ere cilicient. Besides, compressed air is considered to be one of the salest kinds of energy. But it should not bo thought that the described principle can be used only in tectory shops: alages of a number ol theatres turn smoothly and

by a computer and, to the

OIL, PIPES AND THE ENVIRONMENT

Scientists maintein that oil and gas will remain the leading lypes of fuel in the world until tha yesr 2000. However, in the iraditional oil fields the reserves of oil are being exhaused, ves of oil are being exhaused, making it necessary to develop fields of difficult accessibility in the North and on the aea bed. This makes pipelines the most effective and safe method for transporting liquid carbonhydrsies to industrial areas.

The fast growth of volume and distance in pumping oil have led to a substantial increasa in the number of oil pollution sceldants mostly caused by leaks in pipelines.

The dangerous spillouts of oil and other products from pipelines can be prevented by the

Philately

pek stamp dediceled to the 10th operation, year of the world's biggest lelescope set up in the Caucasus near the Zelenchukskaya village they opol Territory. The lelescope, with its six-metre-wide interest wide and 45 metres high. This original telescope, rolating

use of a system of diagoostics for pipelines and methods of comprehensive oil and gas pipeline control. la this area, e msfor part is played by exchanges in scientific and technological information, as well as experiance accumulated in different

Countiles.
This was the subject of an in lernational symposium, Pipe Diagnoste-85, beld recently la Moscow under the sponsorship of the USSR State Coumtiles tor Science and Tachnology. It was allended by more than five clalisis from 22 countries. More than (iffy reports were presen-

Eight foreign firms joined Sovial organizations to mount an exhibition timed to coincide with the aymposium.

The USSR Ministry of Communications has issued a 10-kg-pek slamp dadicated to the



around its horizontal and sal exet cen trace any object

'THE BLUE BIRD' GOES TO ITALY Bird" by Ilya Sats and Mikhail

Natalya Sats' Musical Theaira is oo a tour of three lialian cilles me, Riott and Turin. For the tirst time, lialian audiences heard the world's itrst children musical thealre in the late '70s, when the company loured six italism cities. They were then showing thair hest operatic production, "The Little Red Ridinghood" by Mikhail Raukhverger. This year lbey are showing 'The Blua

A WEEK OF SWEDISH FILMS

A Week of Swedish Filma le curreatly going on the Moscow, Leningrad and Riga. The pro-gramme of the Week, which ends on December 22, features six new films, including Allan Edwall's "Aka and His World" presented this year at the Mos-cow international Film Fastival as o conlest aatry, and "Boyond tha Curtain" produced by Stig Björkman, author of "The White Wnii" ahown ian yaara ago at a Moscow Festival

Weeks of Swedish and Soviet ilime are traditional events and hetwaen the two countries in cinama art. Speaking al a press conference in Moscow, Swedish tilm makers said Soviot films liko "Moscow Doesn'i Beliavo in Tears" hy Vladimir Monshov, "Go and Seo" and "The Ageny by Clam Klimov are greatly eppreciated by Swedish cloema andionces. Film director Allaa Edwoll and that he had heen greatly influenced by the classicel works of Alexander Dovzhonko, Mikhall Kalslozov, Grigory Chukhral and other outding Soviat tilm directors.

Their art le splendid, he added. The two countries film makers have had a certain exparience in joint productions. Several years ago Soviet film director Sargal Kotosov screened "The Man From the Other Side" siarring Bihl Andersson of Sweden. Swedish cinama art director, Bengi Forstund, sski ihat work had started on a new joint production, "Mio, min Mio", based oo a aovel by Astrid Lindgren. It is being directed by Vladimir Grammalikov of the Mos-cow Ceotral Studio of Films to Youth and Childrea.

Raukbverger, a talry ballet ba-sed on a play by Maelerlinck, and ara glvlng a galo concert

The theatre returns home on December 29 to host, on New

Year's eve, the tirst children's

musical company to come to this

country from the State of New

pertormance.

York, USA.

wright Tenacssee Williams baya

been steged al seven theatres

ia Moscow and meay of tham

are still on the slaga, "A Lovely

Sunday for Crove Coeur" ts

another of his plays, the tirat-

night porformance of which is

lo como on et tho Tagenka Dra-

ma and Comedy Theeire here.
There are four looely women in
the pley, each unhappy in her

own way and socking a hetter

ilia. Vary often they are attar

imaglaary values and paltry

dreams which do not come true.

The pley staged by Anatoly Rf-

ros, Taganka's chiaf artistic di-

rector, features tour popular

actresses - Olge Yakovieva.

Alla Demidays, Zinaida Sisyina,

and Anestasiya Verlineksya, an

Art Thealre ectress invited spe-

cislly for the role.

The great exploit of the So-viet people, who is the severe year of 1941 defeated the armies of the aari invaders on the ep-proaches to Moscow, is the subject of a new epic film, "The Battle of Moscow", Part One of the epic — "Aggression"—made jointly by the USSR Mostilm Studios and Barrandov Studios of Czechoslovakia, with the cooperation of GDR and Vietnamese tilm makers, was recently premiered in the Oklyabr cine-

The tilm was produced by USSR People's Artist and film director, Yuri Ozerov, author of the wall-knowa journalistic itction film "Liheration" which won the Lenin Prize. "Liberation" has been shown in 115 countries, and has been viawed by more than tive hundred million people.

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A scene from the playr Olga

Photo by Mikholl Sirokov

Yakovieve as Baudie and Ana-

stativa Verlinskaya as Dorothy.

Alexander DONSKOI

pasi twenty years.

THE BATTLE

OF MOSCOW

The year 1978 was critical in his tite for he went over lo work for the Tallinatilm Studios

as ea animatica carteentsi. The

oflowing yeer Parn made the lirst naimation 'Is the Earth Rouad?", of which he was the

scripiwriter, director and cor-toosist. His other tilm, "A

Greca Bear-Cub", won e diploma at the All-Union Film Pesitval ia Tashkent and the Main

Prize al lbe tel testival of Estoaian tilms. Io 1981, "A Green

Bear-Cub" roceived an eword at the 2nd World Feativat of

Animation Certoons in Varna.

Despite the success of the "Cub" Prill Parn is more drawn

lo tilms for grown-ups. He be-liaves ibal galmetion — no lass

than teature tilms, documenta-ries, literature, thealre and painting -- can teckla important

Here are some more characteristic traits from the creetiva biography of the gitted ertist.

Ho won the Mein Prize at the

Skoptjo (Yugoslavis) Intarna-ticaat Competilion of Cartoon-isis in 1974 and the second prize

in t276. He otao won ao award

at a 1880 competition of car-tocalsts held ta Tokyo.

lustrator of children's books. His abeels of drewings ere dis-

played in the art galtery of Tallina. Desides, ea e tilm eclor

Prilit Para is a recognizad il-

and sarious problems.

in the cast.

"The Baitle of Moscow". which consists of two tilms independent of each other — "Aggression" and "Typhoon"does not have a single lictional character, a slogle imagined si-tuation. (i is based strictly on documentarias. There are more than two bundred ectors engaged

WHAT'S ON!

December 21-23

_THEATRES__

Kremlin Pelece of Congresses (Kremila), 22 (eve), 23 — Coacerts, Bolshot Theatre performaacas: 21 — Adam, "Gisella" (heilai). 22 (mai) — Khachaturian, "Cipo(lino" (ballat).

(opera).

Stanislevsky and Nemtrovichere).

Operelia Thealre (B Pushkinekaya Si), 21 (mai) — Felisman, "The Old Comedy"; 21 (eve)— "Songs of Our Youlb" (o dra-matized performsoce). 22 (mat and aft) — Double-biti: Casagrande, 'Pioocchio's Adventures"; Khrenaikov, "Children in Our Backyard" (one act ballels); 22 (eve) — flyin, "Comrade Lyubov", 23 — Kalman, "The Gypsy Princess".

EXHIBITIONS -

Bolshol Theaire (Syardlov meschara". 22 (mai) - A concart by Bolshol aololsta; 22 (eva) — Verdl, "La Traviata"

Danchenko Musical Thaeiro (17 Pushkinskeya Si). 21 - Sirauss "Dar Zigeunarbaroo" (oparetia). 22 (mat) — Morozov, "Doctor Docilitie" (ballei); 22 (eve) — Khreankov, 'Dorothea' (op-

Omilrovskoys Shosse). Belorusskays, Bus 563. The Line (US).

Based on hard lacir be Based on hard lacit by Lucian look fairry tales, till talis about Assisting in children's books, and paintings to diempt to liempt to learn the manner of the control bases and paintings to lie of the control bases are sufficient to be pure to be pure. Melros the control bases are sufficient to a painting to lie of the control bases are sufficient to be pure. tary eulhorities.

Cinama: "Udarnik" 12 Sent movicha Stj. Melro gibliola lmeni Lenina.

Lenin Central Stadion.

Sports Arena [Limbniki]: 3

"Give Peace a Chancel, a riely programme leaturing souvenir disnot ensemble the Autograph rock gross.

Theatre (20/2 Berse-The Emb). 21, 22 — The Safety archestre from Ge-Meet Vakhlang Kikabid-_ SPORTS ___ Other variety performera, ICE HOCKEY

We'll Mest Again (American one of the countries in section on the countries in section on the countries in section of the countries in section tilm Studios, USSR).

A story shoal tensetti. State Museum of Fine
A story shoal tensetti. State Museum of Fine
tileir enibusiasm for state and torkindaass of their old sings commemorates
triend who turns children to the copy of the annivorsary,
dreams to "earthly" resident accept Mondays, noon
Cineme: "Ysrevan" (IV) in Metro KropotkinsChosse! Most indications in the Copy of the Copy

and Arlisis Club (10/14 Val). Over 100 works Yashelsov: Illustrailons

Sulury, Oktyahrskaya.

TRANSPORT HOURS

CONCERT HALLS Italiayburs: 6 e.m. fo 1 s.m. Fare 5 kopaks. ther 6 sm. lo 1 o.m. Fare 5 kopaks. frims 5.30 c.m. to 1.30 c.m. Fere 5 kopeks, istis 24-hour service; Twenty kopeks on the meler.
Ordering 5 cab 24-hour service, Telephone 225.00-00. anal cahs: [aver: 40 roules in the city] 1 s.m. to 9 p.m. Fere 13 kopeks.

MN INFORMATION No

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